

## **Kenneth Michael Smith, Ph.D.**

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### **Education:**

1994: B.S., Chemistry, Shippensburg University, PA

2001: PhD, Chemistry, University of Tennessee, TN

### **Academic Appointments:**

2002-2003: Professor for Organic and Biochemistry, Lynchburg College, VA

2003-2006: Post-Doc, Oklahoma Medical Research Foundation, Mentor: Dr. William Rodgers (T cell signaling, lipid raft biochemistry)

2006-2008: Post-Doc, Oklahoma Medical Research Foundation, Mentor: Dr. Patrick Wilson (B cell Function, influenza immunology, autoimmunity)

2008-2009: Director, OMRF Human Antibody Core Facility, Mentor: Dr. Judith James

2009-present: Research Assistant Member, Arthritis and Clinical Immunology Program, Oklahoma Medical Research Foundation

### **Awards and Honors:**

### **Research Support:**

### **Selected Publications:**

1. Rafael Casellas, Qingzhao Zhang, Nai-Ying Zheng, Melissa Mathias, Kenneth Smith, and Patrick C. Wilson, Ig Kappa Allelic Inclusion is a Consequence of Receptor Editing. *J Exp Med.* 2007 Jan 22;204(1):153-60. PMID: PMC2118438.
2. Koelsch K, Zheng NY, Zhang Q, Duty A, Helms C, Mathias MD, Jared M, Smith K, Capra JD, Wilson PC, Mature B cells class switched to IgD are autoreactive in healthy individuals. *J Clin Invest.* 2007 Jun; 117(6):1558-65. PMID: PMC1866247.
3. Wrammert J, Smith K, Miller J, Langley WA, Kokko K, Larsen C, Zheng NY, Mays I, Garman L, Helms C, James J, Air GM, Capra JD, Ahmed R, Wilson PC. Rapid cloning of high-affinity human monoclonal antibodies against influenza virus. *Nature.* 2008 May 29; 453(7195): 667-71. PMID: PMC2515609.
4. Duty JA, Szodoray P, Zheng NY, Koelsch KA, Zhang Q, Swiatkowski M, Mathias M, Garman L, Helms C, Nakken B, Smith K, Farris AD, Wilson PC. Functional anergy in a subpopulation of naïve B cells from healthy humans that express autoreactive immunoglobulin receptors. *J Exp Med.* 2009 Jan 16; 206(1):139-51. PMID: PMC2626668.
5. Smith K, Garman L, Wrammert J, Zheng NY, Capra JD, Ahmed R, Wilson PC. Rapid generation of fully human monoclonal antibodies specific to a vaccinating agent. *Nat Protoc.* 2009; 4(3): 372-84. PMID: PMC2750034.

6. Sasaki S, Sullivan M, Narvaez CF, Holmes TH, Furman D, Zheng NY, Nishtala M, Wrammert J, Smith K, James JA, Dekker CL, Davis MM, Wilson PC, Greenberg HB, He XS. Limited efficacy of inactivate influenza vaccine in elderly individuals is associated with decreased production of vaccine-specific antibodies. *J Clin Invest*. 2011; 121(8):3109-19. PMID: PMC3148747.
7. Popova L, Smith K, West AH, Wilson PC, James JA, Thompson LF, Air GM. Immunodominance of antigenic site B over site A of hemagglutinin of recent H3N2 influenza viruses. *PLoS One*. 2012; 7(7):e41895. PMID: PMC3405050.
8. Smith K, Crowe SR, Garman L, Guthridge CJ, Muther JJ, McKee E, Zheng NY, Farris AD, Guthridge JM, Wilson PC, James JA. Human monoclonal antibodies generated following vaccination with AVA provide neutralization by blocking furin cleavage but not by preventing oligomerization. *Vaccine*. 2012; 30(28):4276-83. PMID: PMC3367042.
9. Smith K, Muther JJ, Duke AL, McKee E, Zheng NY, Wilson PC, James JA. Fully human monoclonal antibodies from antibody secreting cells after vaccination with pneumovax23 are serotype specific and facilitate opsonophagocytosis. *Immunobiology*. 2013; 218(5):745-54. PMID: PMC3556204.
10. Smith K, James JA, Harley JB. Editorial for Lindop et al. "Long-term Ro60 humoral autoimmunity in primary Sjogren's syndrome is maintained by rapid clonal turnover". *Clin Immunol*. 2013; 148(1):110-2.